

Title (en)
HUMAN PERFORMANCE OXYGEN SENSOR

Title (de)
SAUERSTOFFSENSOR FÜR MENSCHLICHE LEISTUNGSFÄHIGKEIT

Title (fr)
CAPTEUR D'OXYGÈNE DE PERFORMANCE HUMAINE

Publication
EP 3644849 A4 20210505 (EN)

Application
EP 18787306 A 20180420

Priority
• US 201715492612 A 20170420
• US 2018028673 W 20180420

Abstract (en)
[origin: US2018303392A1] Systems and methods for measuring oxygenation signals are presented. The method includes positioning an oxygenation measuring system over a side portion of a head of a user, wherein the oxygenation measuring system includes an outer shell, a gel seal coupled to the outer shell, a near-infrared spectroscopy sensor configured to measure oxygenation signals from a user, a printed circuit board coupled to the near-infrared spectroscopy sensor, and a bone conducting transducer. The method further includes measuring the oxygenation signals from the user using the near-infrared spectroscopy sensor, recording data pertaining to the measured oxygenation signals of the user, and comparing the data, using the printed circuit board, with known human performance data.

IPC 8 full level
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CPC (source: EP IL US)
A61B 5/01 (2013.01 - IL US); **A61B 5/02433** (2013.01 - EP IL US); **A61B 5/14552** (2013.01 - EP IL US); **A61B 5/14553** (2013.01 - IL US); **A61B 5/6803** (2013.01 - EP IL); **A61B 5/6814** (2013.01 - IL US); **A61B 5/7405** (2013.01 - EP IL US); **A61B 5/746** (2013.01 - IL US); **H04R 1/1008** (2013.01 - EP IL); **H04R 1/1075** (2013.01 - IL); **H04R 1/1091** (2013.01 - IL); **A61B 5/01** (2013.01 - EP); **H04R 1/1075** (2013.01 - EP); **H04R 1/1091** (2013.01 - EP); **H04R 2460/13** (2013.01 - EP IL)

Citation (search report)
• [X] JP 2015223437 A 20151214 - UNIV HIROSHIMA CITY
• [X] US 2015092972 A1 20150402 - LAI WEI-SHIN [US], et al
• [I] CN 204887406 U 20151216 - ZHANG SHANGGUO, et al
• [I] WO 2015053418 A1 20150416 - CHUNGTEC CO LTD [KR]
• [I] US 2014123980 A1 20140508 - RISSACHER DANIEL JEAN [US], et al
• See references of WO 2018195497A1

Designated contracting state (EPC)
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